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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.			
09/560,47	5 04/28/0	O GREENSPAN	Ð	028870-178			
-				EXAMINER			
		HM12/0928					
RONALD L. GRUDZIECKI			PLIL	PULLIAM. A			
BURNS, DO	ANE, SWECKE	R & MATHIS, L.L.P.	ART UNIT	PAPER NUMBER			
P.O. BOX		•					
ALEXANDRIA VA 22313-1404			161	5			
			DATE MAILED	•			
				09/28/01			

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

		Application No.	Application No. Applicant(s)						
,,		09/560,475		GREENSPAN ET AL.					
Office Action Summary		Examiner		Art Unit					
		Amy E Pulliam		1615	1212				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
THE I - Exter after - If the - If NO - Failur - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, many within the statutory minimum will apply and will expire SIX (6, cause the application to beco	nay a reply be tim of thirty (30) days) MONTHS from to	nely filed s will be considered timely the mailing date of this co O (35 U.S.C. § 133).					
1)[Responsive to communication(s) filed on 28 A	A <i>pril 2001</i> .							
2a)[is action is non-final.							
3)									
Dispositi	on of Claims								
4) 🖂	4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	5) Claim(s) is/are allowed.								
6)⊠	6)⊠ Claim(s) <u>1-11</u> is/are rejected.								
7)) ☐ Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.									
Applicati	on Papers								
9)☐ The specification is objected to by the Examiner.									
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12) ☐ The oath or declaration is objected to by the Examiner.									
Priority u	ınder 35 U.S.C. §§ 119 and 120								
13)🛛	Acknowledgment is made of a claim for foreign	priority under 35 U.S	3.C. § 119(a))-(d) or (f).					
a)[☐ All b)☐ Some * c)☐ None of:								
	1. Certified copies of the priority document	s have been received	•						
	2. Certified copies of the priority documents	s have been received	in Application	on No					
	3. Copies of the certified copies of the prior application from the International Buse the attached detailed Office action for a list	reau (PCT Rule 17.2((a)).		Stage				
14) 🗌 A	cknowledgment is made of a claim for domesti	c priority under 35 U.	S.C. § 119(e	e) (to a provisional	application).				
)	• •							
Attachment	-	• • • • • • • • • • • • • • • • • • • •							
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) 🔲 Notic	ce of Informal P	(PTO-413) Paper No(s Patent Application (PTC					

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DETAILED ACTION

Receipt is acknowledged of the Declaration and Fee, received February 1, 2001.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 5,707,829 to Jacobs *et al.*. in view of Us Patent 5,236,458 to Ducheyne *et al.*.

Jacobs *et al.* disclose therapeutic, diagnostic, and research utilities for polynucleotides and proteins (c 1, I 5-8). Jacobs *et al.* teach that their composition may be contain a pharmaceutically acceptable carrier, and any necessary excipients and additives (c 16, I 25-33). Further, at column 19, lines 18-57, Jacobs *et al.* discloses the choices in matrix materials for the composition, including bioglass. Additionally, Jacobs *et al.* teach that their composition can contain a wide variety of proteins, and growth factors, such as TGF-alpha (c 20, I 26). More specifically, at column 16, lines 6-24, Jacobs *et al.* teach that their protein of the invention can exhibit one of the following effects: killing bacteria, viruses, fungi, effecting body characteristics, effecting the processing dietary fat, protein, or carbohydrate, effecting behavioral characteristics, and providing analgesic or other pain reducing effects, among others. This is evidence that

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the composition disclosed by Jacobs et al. can be used for many different purposes. Lastly, Jacobs et al. teaches at column 10, lines 51-58, that the protein of their invention may be one which suppresses chronic or acute inflammation, such as, that associated with Crohn's disease or resulting from overproducyion of cytokines such asn TNF or IL-1. It is the position of the examiner that this disclosure reads on applicant's method claims.

Jacobs et al. does not go into detail regarding the empirical makeup of the bioglass used as a matrix material in their composition. However, a skilled practitioner would look to other, relevant teachings in order to discover the well makeup of bioglass. Ducheyne et al. is relied upon for teaching the specifics of bioglass. At column 4, lines 21-25, Ducheyne et al. teach that bioglass contains 5-14% Na₂O, 0-12% P₂O₅, 49-57% SiO₂, and 33% CaO and CaF₂.

One of ordinary skill in the art would have been motivated to combine the teachings of Jacobs et al. and Ducheyne et al. in order to create a successful pharmaceutical formulation. The motivation to combine lies in Jacobs et al.'s teaching that bioglass would be a suitable matrix material for their invention, and Ducheyne et al. is simply used to clarify the specific makeup of bioglass. Therefore, this invention as a whole would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made.

Conclusion

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examiner should be directed to Amy E Pulliam whose telephone number is (703) 308-

Any inquiry concerning this communication or earlier communications from the

4710. The examiner can normally be reached on Mon-Thurs 7:30-5:00, alternate Fri

8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thurman K Page can be reached on (703) 308-2927. The fax phone

numbers for the organization where this application or proceeding is assigned are (703)

305-3592 for regular communications and (703) 305-3592 for After Final

communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

1234.

September 27, 2001

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